Europäisches Patentamt

**European Patent Office** 

Office européen des brevets



(11) EP 1 072 994 A3

(12)

#### **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 07.02.2001 Bulletin 2001/06

(51) Int. Cl.<sup>7</sup>: **G06F 19/00**, A61B 5/00

(43) Date of publication A2: 31.01.2001 Bulletin 2001/05

(21) Application number: 00202603.7

(22) Date of filing: 20.07.2000

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE Designated Extension States: AL LT LV MK RO SI

(30) Priority: 26.07.1999 US 361777 31.12.1999 US 476602

(71) Applicant:
Cardiac Intelligence Corporation
Seattle, Washington 98199-3017 (US)

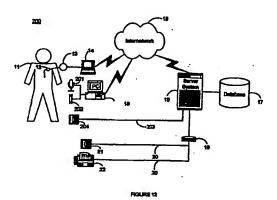
(72) Inventor: Bardy, Gust H. Seattle, WA 98111-3017 (US)

(74) Representative:
 Hanna, Peter William Derek et al
 Tomkins & Co.,
 5 Dartmouth Road
 Dublin 6 (IE)

(54) System and method for providing normalized voice feedback from an individual patient in an automated collection and analysis patient care system

(57)A system 200 and a method for providing normalized voice feedback from an individual patient 11 in an automated collection and analysis patient care system 10 are described. A set of collected measures 50 retrieved on a substantially regular basis is periodically received from a medical device 12 having a sensor for monitoring at least one physiological measure of an individual patient 11. The collected measures set includes individual measures which each relate to patient information recorded by the medical device. The collected measures set 50 are stored into a patient care record for the individual patient within a database 17. The database is organized to store one or more patient care records which each include a plurality of the collected measures sets. Voice feedback is spoken by the individual patient into a remote client 18 substantially contemporaneous to the collection of an identifiable device measures set. The voice feedback is processed into a set of quality of life measures which each relate to patient self-assessment indicators. The identified collected device measures set and the quality of life measures set are received and stored into the patient care record for the individual patient within the database. The identified collected device measures set, the quality of life measures set, and one or more of the collected device measures sets in the patient care record for the individual patient are analyzed relative to one or more other collected device measures sets stored in the data-

base server to determine a patient status indicator 54.



P 1 072 994 A3



### **EUROPEAN SEARCH REPORT**

EP 00 20 2603

Indication, where appropriate, ssages  EN KOPEL H) 1998-02-19) page 14, line 4 * - page 33, line 10; NGEN ET AL) 994-10-18) 5 - column 10, line 47; VIS ET AL) 96-08-13) 3 - column 2, line 15 * RK DAN M ET AL)	1-23 1,12 2-11,13-23 1,12	CLASSIFICATION  G06F19/00 A61B5/00	(IntCL7)
1998-02-19) page 14, line 4 * - page 33, line 10; NGEN ET AL) 994-10-18) 5 - column 10, line 47; VIS ET AL) 96-08-13) 3 - column 2, line 15 *	1,12 2-11, 13-23		
994-10-18) 5 - column 10, line 47; VIS ET AL) 96-08-13) 3 - column 2, line 15.*	2-11, 13-23	*	
5 - column 10, line 47;  VIS ET AL) 96-08-13) 3 - column 2, line 15 *	13-23		
96-08-13) 3 - column 2, line 15 *	1,12	1	•
RK DAN M FT ALL			
1995-02-14) 7 - column 6, line 16;	1,12		
ALTH TECH SERVICES CORP) 1989-11-23) - page 7, line 17;	1,12	TECHNICAL P SEARCHED G06F A61B G10L	FIELDS (Int.Cl.7)
			:
			:
s been drawn up for all claims			
warm up for an orallis		Examiner	*
Date of completion of the search	ole underlying the ocument, but publishe	invention ished on, or	
	15 December 2000  T: theory or princip E: earlier patent of after the filing of	Date of completion of the search  15 December 2000 Sch  T: theory or principle underlying the E: earlier patent document, but publication the filing date D: document cited in the application L: document cited for other reasons	Date of completion of the search  15 December 2000 Schenkels, P  T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filling date

## ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 20 2603

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-12-2000

	Patent document ed in search rep		Publication date		Patent family member(s)	Publication date
WO	9807142	Α	19-02-1998	US EP	6014626 A 0927417 A	11-01-2000 07-07-1999
US	5357427	Α	18-10-1994	NONE		
US	5544661	Α	13-08-1996	NON		
US	5390238	Α	14-02-1995	NONE		
EP	0342859	A	23-11-1989	US AT AU CA DE JP JP US US	4933873 A 140326 T 622175 B 3459889 A 1336842 A 68926801 D 68926801 T 1700087 C 2142533 A 3067686 B 5442728 A 5142484 A 5868135 A	12-06-1990 15-07-1996 02-04-1992 16-11-1989 29-08-1995 14-08-1996 12-12-1996 14-10-1992 31-05-1990 23-10-1991 15-08-1995 25-08-1992 09-02-1999

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

# This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

### IMAGES ARE BEST AVAILABLE COPY.

**□** OTHER: \_

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.